



Fabrication of Heat-Resistant and Plastic-Formable Silicon Nitride (NIMS Monographs)

Toshiyuki Nishimura, Xin Xu

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In this book, improvements in the heat resistance of silicon nitride (Si_3N_4) ceramics using grain boundary control and in plasticity at high temperatures using grain size control in order to reduce the cost of shaping Si_3N_4 are described.

The heat resistance of Si_3N_4 is improved by mixing a slight amount of sintering additive as an impurity into the original material powder. The author presents his findings on the high heat resistance of Si_3N_4 .

The author also develops a new fabrication method for Si_3N_4 nano-ceramics that produces high plastic formability. The method developed offers two improved points in grinding and sintering processes. The author found that the plastic formability of Si_3N_4 nanoceramics is dependent on load stress; the results of his research are detailed in this book.

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